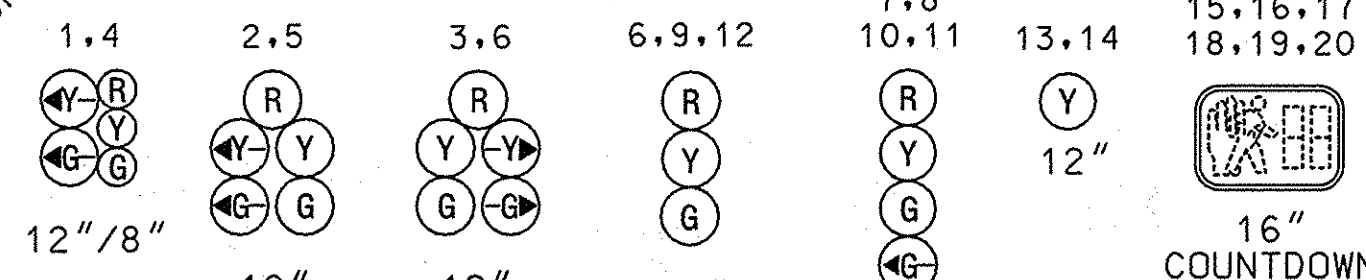


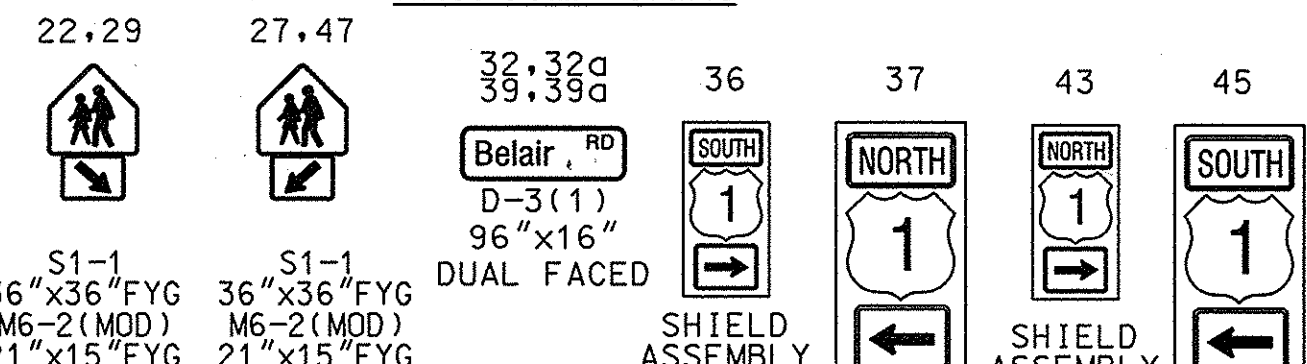
NOTE: US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS



EXISTING SIGNALS TO BE REMOVED

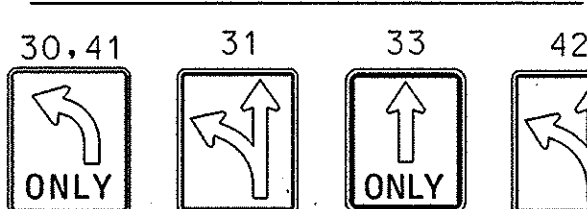
PROPOSED SIGNS



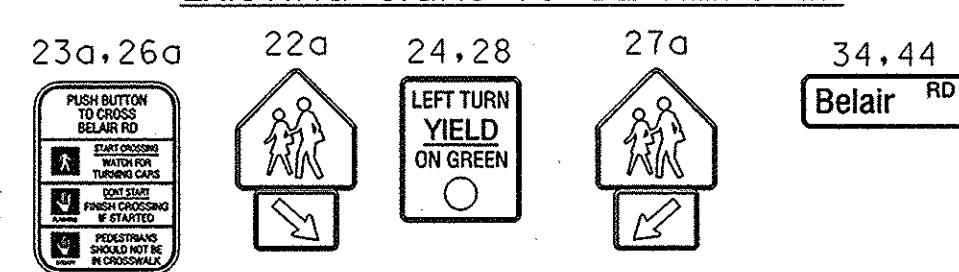
EXISTING VIDEO DETECTION TO REMAIN

a, b, c, d

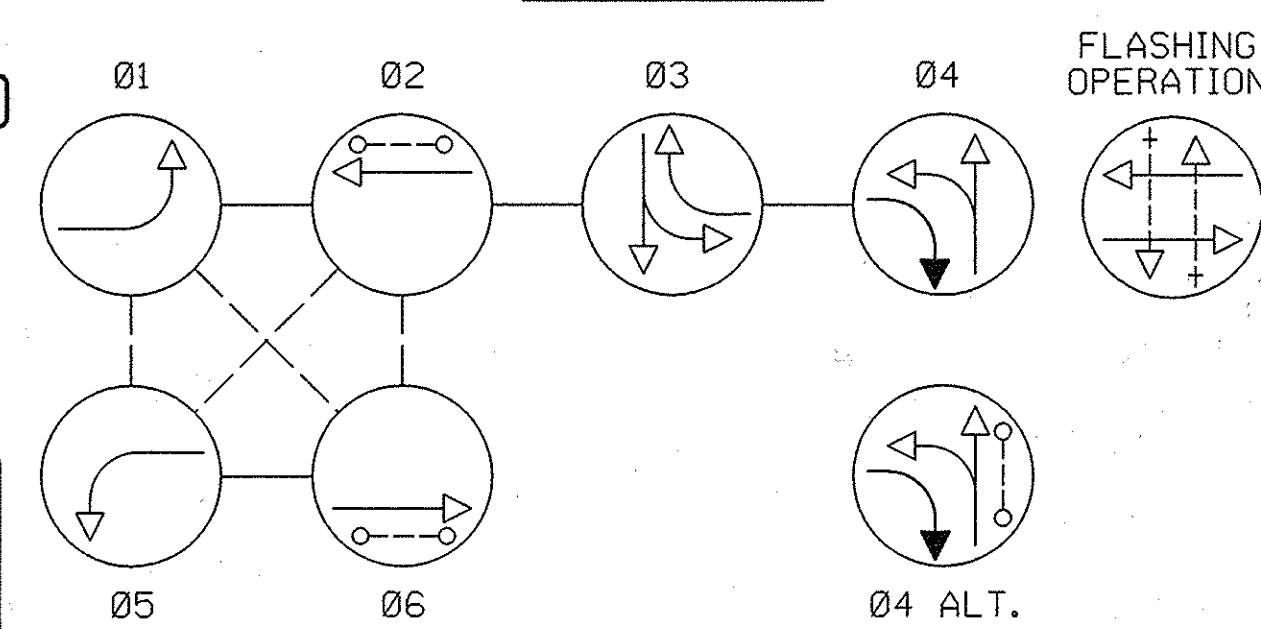
EXISTING SIGNS TO REMAIN



EXISTING SIGNS TO BE REMOVED

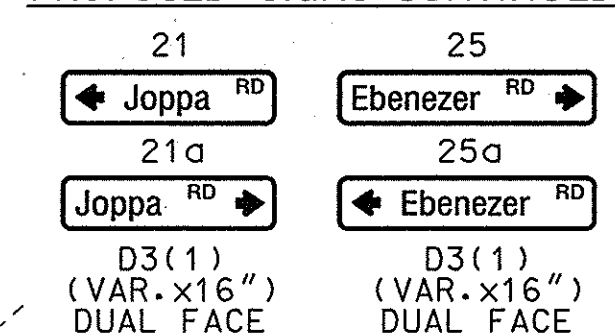


NEMA PHASING

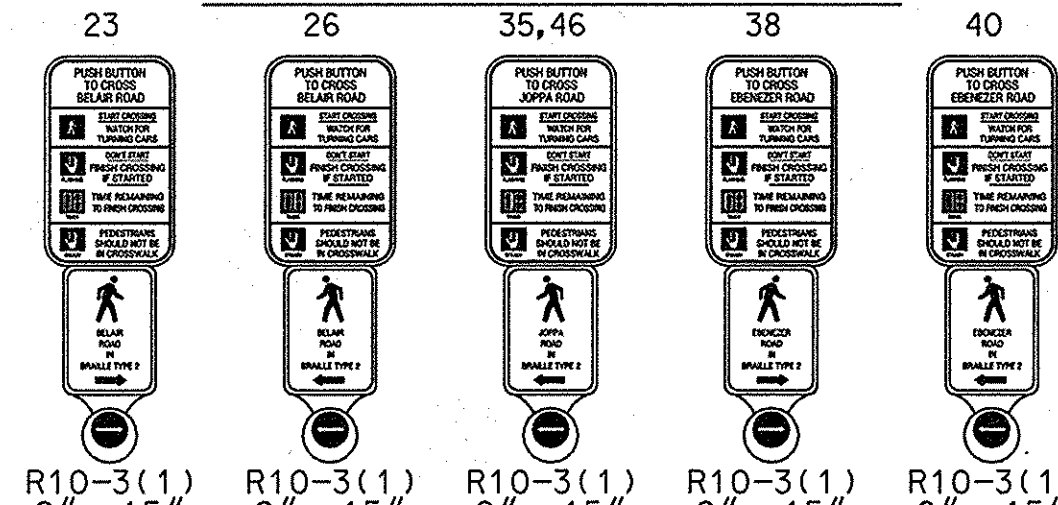


NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED SIGNS CONTINUED



PROPOSED AUDIBLE/TACTILE PUSHBUTTON STATION AND SIGNS



CONSTRUCTION DETAILS CONTINUED

- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND PHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- INSTALL 1-4 IN. PVC 90 DEGREE BEND IN EXISTING BASE MOUNTED CABINET.
- USE EXISTING SPAN WIRE.
- SEE US 1 AT PERRY HALL SHOPPING CENTER DRIVE TRAFFIC SIGNALIZATION PLAN.
- SEE US 1 AT JOPPA ROAD/INDIA AVENUE TRAFFIC SIGNALIZATION PLAN.
- REMOVE EXISTING ELECTRICAL HANDHOLE.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED). USE EXISTING 2 IN. PVC 90 DEGREE BEND IN BASE MOUNTED CABINET.
- INSTALL METERED SERVICE PEDESTAL (NOTE: 2-2 INCH AND 1-4 INCH CONDUIT BENDS).
- REMOVE EXISTING VEHICULAR TRAFFIC SIGNAL HEAD AND INSTALL NEW VEHICULAR LED TRAFFIC SIGNAL HEAD WITH LOUVERS.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).

GENERAL NOTES

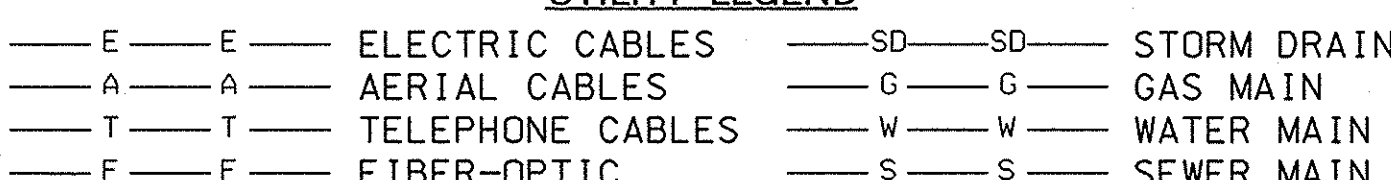
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION EXCEPT FOR VIDEO DETECTION CAMERA AND ASSOCIATED EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATION(S) PRIOR TO INSTALLATION.
- SEE GENERAL INFORMATION SHEET FOR SIGNAL POLE, CROSSWALK, STOPLINE, SIGN AND SIGNAL HEAD LAYOUTS.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION EXCEPT FOR VIDEO DETECTION CAMERA AND ASSOCIATED EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATION(S) PRIOR TO INSTALLATION.
- SEE GENERAL INFORMATION SHEET FOR SIGNAL POLE, CROSSWALK, STOPLINE, SIGN AND SIGNAL HEAD LAYOUTS.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

CONSTRUCTION DETAILS

- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE (CUT TO 5 FT.) WITH SHA STD. MD 801.01 18 IN. FOUNDATION, AUDIBLE/TACTILE PUSHBUTTON STATION AND SIGN, R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS JOPPA ROAD, EBENEZER ROAD, OR BELAIR ROAD". CUT, CLEAN, GALVANIZE AND CAP PEDESTAL POLE (NOTE: 1-3 INCH PVC 90 DEGREE BEND).
- INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, LED TRAFFIC SIGNAL HEADS AND SIGN. (SEE PROPOSED HIB DETAIL THIS SHEET) (NOTE: 1-3 INCH PVC 90 DEGREE BEND).
- REMOVE EXISTING VEHICULAR TRAFFIC SIGNAL HEAD AND INSTALL NEW VEHICULAR LED TRAFFIC SIGNAL HEAD.
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD AT 7-10 FEET HEIGHT, AUDIBLE/TACTILE PUSHBUTTON STATION AND SIGN, AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS JOPPA ROAD, EBENEZER ROAD, OR BELAIR ROAD" ON EXISTING STRAIN POLE.
- REMOVE EXISTING PUSHBUTTON, SIGN AND PEDESTRIAN SIGNAL HEADS AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS AT 7-10 FEET HEIGHT.
- VIDEO DETECTION CAMERA AND EQUIPMENT TO BE SALVAGED BY THE SHA SIGNAL SHOP.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET.
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED). TRENCH CONDUIT WHEN SLOTTING IS NOT NECESSARY.
- INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
- INSTALL OVERHEAD SIGN.
- ADJUST EXISTING HANDHOLE TO GRADE.
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE, AUDIBLE/TACTILE PUSHBUTTON STATION AND SIGN, R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS JOPPA ROAD OR BELAIR ROAD", AND SCHOOL SIGNS. (NOTE: 1-3 INCH PVC 90 DEGREE BEND).
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT.
- ABANDON EXISTING CONDUIT; CAP AT NEAREST HANDHOLE(S).
- ABANDON EXISTING LOOP DETECTOR.
- REMOVE OVERHEAD SIGN.

UTILITY LEGEND



STV Incorporated

engineers/architects/planners/construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

GENERAL NOTES CONTINUED

- ALL AUDIBLE/TACTILE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7650 TO COORDINATE.
- THE CONTRACTOR SHALL ENSURE THE EXISTING HAZARD IDENTIFICATION BEACON REMAINS OPERATIONAL UNTIL THE RECONSTRUCTED HAZARD IDENTIFICATION BEACON IS OPERATIONAL. (SEE TRAFFIC CONTROL PLANS FOR DETAILS ON MAINTENANCE OF TRAFFIC.)
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- THE SHA SIGNAL SHOP SHALL PROGRAM VIDEO DETECTION CAMERAS (a) and (b) FOR BOTH PRESENCE AND SAMPLING DETECTION AND (c) AND (d) FOR BOTH PRESENCE AND SETBACK DETECTION.
- THE CONTRACTOR SHALL INSTALL ALL HANDHOLES, FOUNDATIONS, AND CONDUIT PRIOR TO PROPOSED SIDEWALK, RAMP, AND FINAL ROADWAY SURFACE.
- THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTION TO AVOID THE STORM DRAIN, TELEPHONE, AND GAS LINES IN THE NORTHEAST CORNER.
- STOPLINES AND CROSSWALKS TO BE INSTALLED BY SIGNING AND PAVEMENT MARKING CONTRACTOR.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 (BELAIR ROAD) AT
JOPPA ROAD / EBENEZER ROAD

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20'	DATE 10/16/1972	CONTRACT NO. B 115-501-478
DESIGNED BY	COUNTY BALTIMORE	
DRAWN BY MLCC	LOGMILE 03000119.69	
CHECKED BY DAZ	TMS NO. 1425	
FAP NO. SEE TITLE SHEET	TOD NO.	
TS NO. 564G	DRAWING SG - 3 OF 6	SHEET NO. 24 OF 38

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